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Notice of Allowability

Application No.

10/622,937

Applicant(s)

SCHRODINGER, KARL

Examiner

Hai L. Nguyen

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 4/07/2005.
2. ☒ The allowed claim(s) is/are 1-3, 5-10 and 12-21.
3. ☒ The drawings filed on 04 November 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

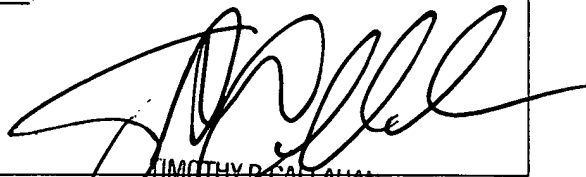
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |


TIMOTHY D. CALLAHAN
SUPERVISOR/PATENT EXAMINER
TECHNOLOGY CENTER 2800

DETAILED ACTION

Response to Amendment

1. The amendment received on 4/07/2005 has been reviewed and considered with the following results:

As to the objection to claim 1, Applicant's amendment has overcome the objection, as such; the objection has been withdrawn.

As to the prior art rejections to the claims, Applicant's amendment has overcome the prior art rejections, as such; the prior art rejections have been withdrawn. The case is found to be in allowance condition.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Ralph E. Locher on 04/13/2005.

3. The application has been amended as follows:

In the claims

Claim 5, line 2, "claim 1 4" has been changed to --claim 1--;

Claim 6, line 2, "claim 1 4" has been changed to --claim 1--;

Claim 8, line 2, "claim 1 4" has been changed to --claim 1--; and

Claim 12, line 2, "claim 1 4" has been changed to --claim 1--.

REASON FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or fairly suggest a circuit configuration (as shown in Fig. 2) for regenerating clock signals, as recited in claim 1, having specific structural limitations such as an offset compensation circuit (2, 7, R5, R6, C4) comprises a control amplifier (7 in instant Fig. 7) having an input receiving the two output clock signals (Ep, En) and outputting output signals (Ioffsp, Ioffsn) derived from the output clock signals, and a further differential amplifier (2) generating first and second amplified (Cp, Cn), offset-compensated signals from the first and second amplified signals (Bp, Bn) of the input differential, amplifier and the output signals of the first control amplifier and feeding the first and second amplified, offset compensated signals as drive signals to the inverters (In1, In2); and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a circuit configuration (as shown in Fig. 2) for regenerating clock signals, as recited in claim 10, having specific structural limitations such as a control circuit comprises a control amplifier (8) having, an input receiving an average value (4) of the first and second differential output clock signals (Ep, En) and a desired value (5) and outputting an output signal, and a differential amplifier (3) generating first and second drive signals (Dp, Dn) for the first and second inverters (In1, In2) in response to the output signal of the control amplifier and input signals (Bp, Bn) fed by one of the input differential amplifier (1) and a component connected downstream thereof; and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

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5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number for the organization where this application or proceeding is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1562.


7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HLN 
April 13, 2005